DELPHI SERIES

FEATURES

- High efficiency: 87% @12V/1.3A
- Industry standard 1x2 pinout
- Size: 27.9x24.4x8.7mm (1.10”x0.96”x0.34”)
- SMT and Through-hole versions
- Fixed frequency operation
- 4:1 input voltage range
- Input UVLO,
- Output OCP, OVP and OTP
- Output voltage trim ±10%
- 2250V isolation and basic insulation
- No minimum load required
- ISO 9001, TL 9000, ISO 14001, QS 9000, OHSAS18001 certified manufacturing facility
- UL/cUL 60950-1 (US & Canada) Recognized, and TUV (EN60950-1) certified.
- CE mark meets 73/23/EEC and 93/68/EEC directives

Delphi S36SE, 17W 1x1 Brick Series DC/DC Power Modules: 18~75V in, 5A out

The Delphi S36SE series, 1x1 sized, 18~75V input, single output, isolated DC/DC converters are the latest offering from a world leader in power systems technology and manufacturing — Delta Electronics, Inc. This product family is available in a surface mount or through-hole package and provides up to 17 watts of power or 5A of output current in a standard 1x1 form factor (1.10”x0.96”x0.33”). The pinout is compatible with the industry standard 1x2 products. With creative design technology and optimization of component placement, these converters possess outstanding electrical and thermal performance, as well as extremely high reliability under highly stressful operating conditions. Typical efficiency of 12V/1.3A module is better than 87% and all modules are fully protected from abnormal input/output voltage, current and temperature conditions.

OPTIONS

- SMD module available
- Positive or no On/Off
- Output OVP and OCP mode, auto-restart (default) or latch

APPLICATIONS

- Optical Transport
- Data Networking
- Communications, including Wireless and traditional Telecom
- Servers

Delta Electronics, Inc.

SPECIFICATIONS

GENERAL SPECIFICATIONS			OUTPUT SPECIFICATIONS		
Input Voltage		18 ~ 75V	**Voltage Accuracy**	Typical	±1.5%
Switching Frequency	Typical	450KHz	**Line Regulation**	Typical	±0.1%
Isolation Voltage	In/Out	2250V	**Load Regulation**	Typical	±0.1%
Isolation Capacitance	Typical	1nF	**Ripple & Noise**	Typical	50mV
Isolation Resistance	Minimum	10M ohm	**Current Limits**	Typical	130%
MTBF	Bellcore	TBD	**Over Voltage**	Typical	125%
Size	(1.10" x 0.96" x 0.34")	27.9mmx24.4mmx8.7mm	**Voltage Trim**		+10%, -10%

PART NUMBERING SYSTEM

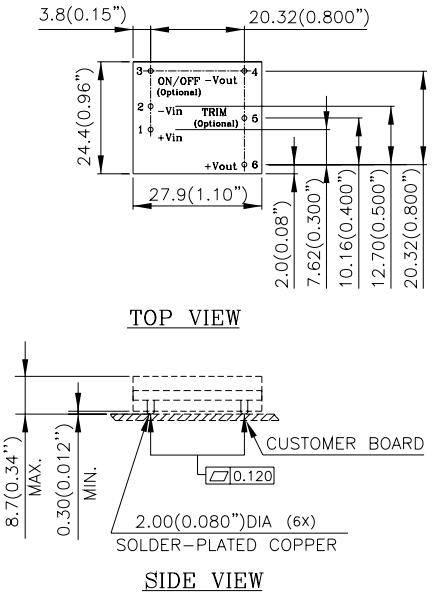
S	36	S	E	050	03	N	R	F	B
Product Type	**Input Voltage**	**Number of Outputs**	**Product Series**	**Output Voltage**	**Output Current**	**ON/OFF Logic**	**Pin Length/ Type**		**Option Code**
S - Small Power	18V-75V	S - Single	1x1, 17W	3R3 - 3.3V 050 - 5.0V 070 - 7.0V 120 - 12V	01 - 1A 02 - 2A 03 - 3A 05 - 5A	N - Negative P - Positive E - No remote on/off control pin	R - 0.170" N - 0.145" K - 0.110" M - SMD	F- RoHS 6/6 (Lead Free)	A - No trim pin B - With trim pin F - With trim pin and case

MODEL LIST

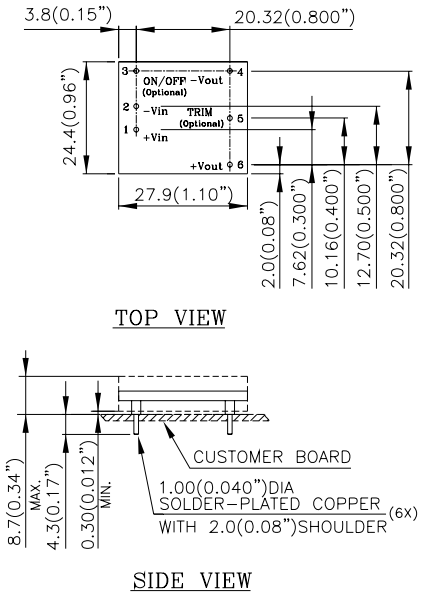
MODEL NAME	INPUT		OUTPUT		EFF @ 100% LOAD
S36SE3R305NRFB	18V~75V	1.3A	3.3V	5A	86.5%
S36SE05003NRFB	18V~75V	1.1A	5.0V	3A	83.0%
S36SE07002ERFF	18V~75V	1.1A	7.0V	2A	84.0%
S36SE12001NRFB	18V~75V	1.1A	12V	1.3A	87.0%

MECHANICAL DRAWING

Surface-mount module



Through-hole module



NOTES:
DIMENSIONS ARE IN MILLIMETERS AND (INCHES)
TOLERANCES: X.Xmm±0.5mm(X.XX in.±0.02 in.)
X.XXmm±0.25mm(X.XXX in.±0.010 in.)

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WARRANTY

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